



# Heating, Ventilation, and Air Conditioning Career Technical Training Area

## Construction Career Pathway

## Heating, Ventilation, and Air Conditioning (HVAC)

**The Job Corps HVAC career training program takes 8 to 12 months to complete and requires training in the following subject areas:**

- Introduction to HVAC
- HVAC tools and equipment
- Copper and plastic piping
- Ferrous metal piping
- Introduction to cooling
- Chimneys, vents, and flues
- Service technician maintenance skills
- Accessories and optional equipment
- Point-of-sale/Counter skills
- Planned maintenance
- Introduction to control circuit troubleshooting
- Leak detection, evacuation, recovery, and charging
- Introduction to gas heating troubleshooting (optional)
- Introduction to electric heating troubleshooting (optional)
- Introduction to heat pump troubleshooting (optional)
- Introduction to cooling system troubleshooting (optional)
- HVAC math
- Alternating current
- Solder and brazing
- Basic electricity
- Introduction to heating
- Air distribution systems
- Metering devices
- Compressors
- Electric heating (optional)
- Heat pumps (optional)

## Certification:

Students who complete a Job Corps training program are eligible to receive a nationally recognized certificate of completion.

- Construction Safety & Health OSHA 10-Hour Training
- NCCER Core Curriculum Completion (for center-operated programs)
- NCCER Level 1 HVAC Completion (for center-operated programs)
- NCCER Green Certificate of Completion (for center-operated programs)

## Steps to certification:

Before completing an HVAC training program, students should:

- Have the basic math and reading skills necessary to perform the job.
- Complete the core curriculum and pass all written and performance tests.

## Average length of training:

8 to 12 months

## The salary range for various careers in HVAC is:

\$35,000 to \$52,000/year

## Green Training



Job Corps students who enter the HVAC career technical trade will also train in a variety of green subject areas to prepare for successful careers in the new green economy. Students will develop knowledge and skills in the following green technology and industry practices.

- Introduction to Environmental Awareness and Green Building
- Reject, Reduce, Reuse, Recycle
- Alternative materials
- Proper disposal of HVAC system
- Flush-out techniques
- ENERGY STAR HVAC system
- MERV and AFUE rating systems

## THE BENEFITS OF JOB CORPS

**Industry-recognized certification • Hands-on training and internships • Housing, meals, and basic medical care • Earn while you learn: Biweekly living allowance • Administered by the U.S. Dept. of Labor**

### What is Job Corps?

- **A residential career training program**
- **Your path to a career in a high-growth industry**
- **A place to earn your high school diploma or GED**
- **Career counseling and support after graduation**



*Career Technical Training programs vary at different Job Corps centers.*

Administered by the U.S. Department of Labor, Job Corps is the nation's largest career technical training and education program for students ages 16 through 24. Job Corps is a U.S. Department of Labor Equal Opportunity Employer Program. Auxiliary aids and services are available upon request to individuals with disabilities. TDD/TTY telephone number is (877) 889-5627.